20070"274mm001

```
                9          18          27          36          45          54
5'   G TTT TAC CCA GAG GCC CCT GCG ACG CCT TTC TCC GCT GGC AAC GGC GCC GCT

               63          72          81          90          99         108
   CCC CGC TCC TCC TCC CCA GCC ATG GCG TTC ACG TTC GCG GCC TTC TGC TAC ATG
                              M   A   F   T   F   A   A   F   C   Y   M

              117         126         135         144         153         162
   CTG GCG CTG CTG CTC ACT GCC GCG CTC ATC TTC TTC GCC ATT TGG CAC ATT ATA
   L   A   L   L   L   T   A   A   L   I   F   F   A   I   W   H   I   I

              171         180         189         198         207         216
   GCA TTT GAT GAG CTG AAG ACT GAT TAC AAG AAT CCT ATA GAC CAG TGT AAT ACC
   A   F   D   E   L   K   T   D   Y   K   N   P   I   D   Q   C   N   T

              225         234         243         252         261         270
   CTG AAT CCC CTT GTA CTC CCA GAG TAC CTC ATC CAC GCT TTC TTC TGT GTC ATG
   L   N   P   L   V   L   P   E   Y   L   I   H   A   F   F   C   V   M

              279         288         297         306         315         324
   TTT CTT TGT GCA GCA GAG TGG CTT ACA CTG GGT CTC AAT ATG CCC CTC TTG GCA
   F   L   C   A   A   E   W   L   T   L   G   L   N   M   P   L   L   A

              333         342         351         360         369         378
   TAT CAT ATT TGG AGG TAT ATG AGT AGA CCA GTG ATG AGT GGC CCA GGA CTC TAT
   Y   H   I   W   R   Y   M   S   R   P   V   M   S   G   P   G   L   Y
```

FIGURE 1A

```
        387         396         405         414         423         432
GAC CCT ACA ACC ATC ATG AAT GCA GAT ATT CTA GCA TAT TGT CAG AAG GAA GGA
D   P   T   T   I   M   N   A   D   I   L   A   Y   C   Q   K   E   G

        441         450         459         468         477         486
TGG TGC AAA TTA GCT TTT TAT CTT CTA GCA TTT TTT TAC TAC CTA TAT GGC ATG
W   C   K   L   A   F   Y   L   L   A   F   F   Y   Y   L   Y   G   M

        495         504         513         522         531         540
ATC TAT GTT TTG GTG AGC TCT TAG AAC AAC ACA CAG AAG AAT TGG TCC AGT TAA
I   Y   V   L   V   S   S

        549         558         567         576         585         594
GTG CAT GCA AAA AGC CAC CAA ATG AAG GGA TTC TAT CCA GCA AGA TCC TGT CCA

        603         612         621         630         639         648
AGA GTA GCC TGT GGA ATC TGA TCA GTT ACT TTA AAA AAT GAC TCC TTA TTT TTT

        657         666         675         684         693         702
AAA TGT TTC CAC ATT TTT GCT TGT GGA AAG ACT GTT TTC ATA TGT TAT ACT CAG

        711         720         729         738         747         756
ATA AAG ATT TTA AAT GGT ATT ACG TAT AAA TTA ATA TAA AAT GAT TAC CTC TGG

        765         774         783         792         801         810
TGT TGA CAG GTT TGA ACT TGC ACT TCT TAA GGA ACA GCC ATA ATC CTC TGA ATG
```

FIGURE 1B

20070"27###007

```
       819         828         837         846         855         864
ATG CAT TAA TTA CTG ACT GTC CTA GTA CAT TGG AAG CTT TTG TTT ATA GGA ACT

       873         882         891         900         909         918
TGT AGG GCT CAT TTT GGT TTC ATT GAA ACA GTA TCT AAT TAT AAA TTA GCT GTA

       927         936         945         954         963         972
GAT ATC AGG TGC TTC TGA TGA AGT GAA AAT GTA TAT CTG ACT AGT GGG AAA CTT

       981         990         999        1008        1017        1026
CAT GGG TTT CCT CAT CTG TCA TGT CGA TGA TTA TAT ATG GAT ACA TTT ACA AAA

      1035        1044        1053        1062        1071        1080
ATA AAA AGC GGG AAT TTT CCC TTC GCT TGA ATA TTA TCC CTG TAT ATT GCA TGA

      1089        1098        1107        1116        1125        1134
ATG AGA GAT TTC CCA TAT TTC CAT CAG AGT AAT AAA TAT ACT TGC TTT AAT TCT

      1143        1152        1161        1170        1179        1188
TAA GCA TAA GTA AAC ATG ATA TAA AAA TAT ATG CTG AAT TAC TTG TGA AGA ATG

      1197        1206        1215        1224        1233        1242
CAT TTA AAG CTA TTT TAA ATG TGT TTT TAT TTG TAA GAC ATT ACT TAT TAA GAA

      1251        1260        1269        1278        1287        1296
ATT GGT TAT TAT GCT TAC TGT TCT AAT CTG GTG GTA AAG GTA TTC TTA AGA ATT
```

FIGURE 1C

20070'24nn001

```
      1305        1314        1323        1332        1341        1350
TGC AGG TAC TAC AGA TTT TCA AAA CTG AAT GAG AGA AAA TTG TAT AAC CAT CCT

      1359        1368        1377        1386
GCT GTT CCT TTA GTG CAA TAC AAT AAA ACT CTG AAA TTA AAA A 3'
```

FIGURE 1D

DOCKET ALARM

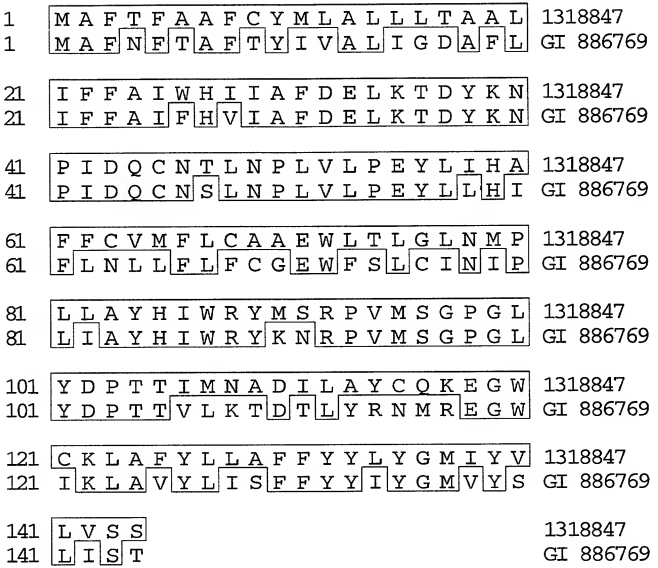

FIGURE 2

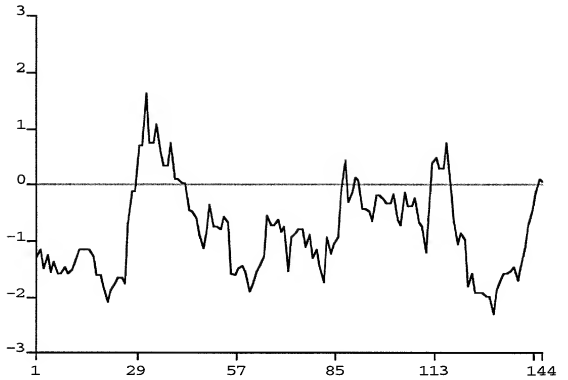

FIGURE 3A

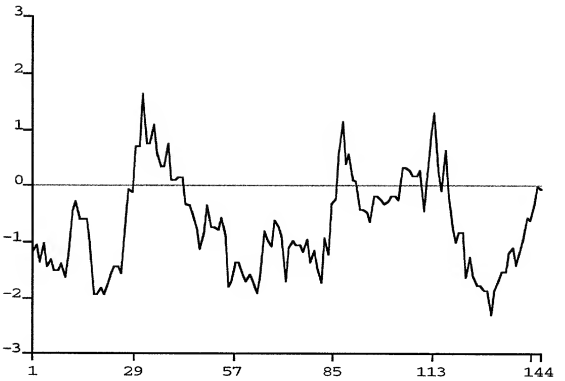

FIGURE 3B